

Work Order ID 75886

75886

Page 1

November-01-11 1:11:45 PM

Item ID: D407-558-045

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Item Name: Single Cargo Mirror Assembly, 6 inch Round

Stop ***NS2***

Start Date: 01/11/2011 Start Qty: 2.00

2

Cust Item ID:

Required Date: 15/11/2011 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 11/11/01

Tooling:

Date:

Run Start ***NR1***

QC: Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

100

100

DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile and type labels as per PPP D407-558-045 and DSI 9436
CHG002

0.00

0.00

MLJ 11-11-24
(2)

110

110

Small Fab

Small Fab

Small Fab

Memo

Assemble as per Dwg D206-558

0.00

0.00

11/11/24
(2)

120

120

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

8/16/24

(2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Stop ***NS2***

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Start Date: 01/11/2011 Start Qty: 2.00

2

Cust Item ID:

Required Date: 15/11/2011 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

125

Pick Kit

0.00

125

Packaging

Memo

0.00

Packaging

SP 11-11-24. (2)

130

QC4- 100% Inspect kits for completeness

0.00

130

QC

Memo

0.00

Quality Control

W 11-11-24 (2)

140

Packaging

0.00

140

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D407-558-045 and DSI 9436

Location:

PPP Rev: B

11/11/25 (2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 75886***75886***

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Revision ID:

Stop ***NS2***

Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011 Start Qty: 2.00

2

Cust Item ID:

Required Date: 15/11/2011 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.00							
Quality Control									

11/11/28
ME
11-11-25

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

November-01-11 1:11:49 PM

Page 1

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec IPP Rev:B
10.06.17 added grommet DD ver:EC IPP REV:C 11.01.19 AS
PER chg002 DD VER:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS35489-67

Purchased

No

Each

14.0000

2

MS35489-67

GROMMET

**

8

Location

Loc Qty

Loc Code

ST296

14

111193

14

2x

AN960JD10

NAS1149D0363J

Purchased

No

110

Each

0.0000

4

8

AN960JD10

Washer

D2011-101

Manufactured

No

110

Each

5.0000

1

2

D2011-101

6" Mirror

**

Location

Loc Qty

Loc Code

ST226

5

70729

5

375983

D2052

Manufactured

No

110

Each

21.0000

2

4

D2052

Mounting Bracket

**

Location

Loc Qty

Loc Code

GA

2

67743

2

ST005

19

73052

19

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Picklist Print

November-01-11 1:11:49 PM

Page 2

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

D2054
D2054
Bushing

Manufactured No

110 Each 32.0000

2 4

**

Location

Loc Qty

Loc Code

GA

32

67784

32

Manufactured No

110 Each 13.0000

1 2

**

Location

Loc Qty

Loc Code

GA

13

66184

1

71890

12

Manufactured No

110 Each 26.0000

1 2

**

Location

Loc Qty

Loc Code

GA

26

71102

6

71889

20

Manufactured No

110 Each 24.0000

1 2

**

Location

Loc Qty

Loc Code

GA

20

71888

20

ST005

4

71103

4

D2057
D2057
Plug

Manufactured No

110 Each 24.0000

1 2

**

Location

Loc Qty

Loc Code

GA

20

71888

20

ST005

4

71103

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Picklist Print

November-01-11 1:11:49 PM

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

D2065

Manufactured No

110

Each

11.0000

1

2

**

D2065

Arm

Location

Loc Qty

Loc Code

ST229

11

71104

6

73053

5

110

Each

9,776.000

2

4

**

MS21042L3

Purchased

No

MS21042L3

Nut

Location

Loc Qty

Loc Code

ST300

776

117441

16

117885

42

118451

90

118927

628

ST516

6000

119017

6000

ST518

3000

119075

3000

110

Each

70.0000

2

4

**

MS27039-1-18

Purchased

No

MS27039-1-18

Screw

Location

Loc Qty

Loc Code

ST291

70

115589

70

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 4

November-01-11 1:11:50 PM

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

AN3-4A

Purchased No

125

Each

459.0000

4

8

AN3-4A

Bolt

**

SP

Location

Loc Qty

Loc Code

ST350

459

104291

159

104625

300

8x

AN526-1032R9

Purchased No

125

Each

84.0000

4

8

AN526-1032R9

Screw

**

SP

Location

Loc Qty

Loc Code

ST328

84

116900

4

117395

80

8x

AN960JD10L

NAS1149D0332J

Purchased No

125

Each

0.0000

6

12

AN960JD10L

Washer

D2053

Manufactured No

125

Each

26.0000

1

2

D2053

Mounting Bracket

**

SP

Location

Loc Qty

Loc Code

ST005

26

71595

26

2x

Manufactured No

125

Each

35.0000

1

2

D2067

D2067

Connector

**

SP 11-11-24

Location

Loc Qty

Loc Code

ST005

35

67403

5

70066

30

2x

November-01-11 1:11:50 PM

Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

November-01-11 1:11:50 PM

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

D2071-3

Manufactured No

125

Each

17.0000

1

2

D2071-3

Cable

**

Location

Loc Qty

Loc Code

ST222

17

64745

4

73054

13

Manufactured No

125

Each

12.0000

1

2

D3778-1

Bracket

**

Location

Loc Qty

Loc Code

ST228

12

71205

12

Purchased No

125

Each

9,776.000

1

2

MS21042L3

MS21042L3

Nut

**

Location

Loc Qty

Loc Code

ST300

776

117441

16

117885

42

118451

90

118927

628

ST516

6000

119017

6000

ST518

3000

119075

3000

2x

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 6

November-01-11 1:11:50 PM

Work Order ID: 75886

75886

Parent Item: D407-558-045

D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 01/11/2011

Required Date: 15/11/2011

Start Qty: 2.00

Required Qty: 2.00

MS21919-DG5

Purchased

No

125

Each

40.0000

2

4

MS21919-DG5

Clamp

**

SP 11-11-24.

Location

Loc Qty

Loc Code

ST306

40

118840

40

4x

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

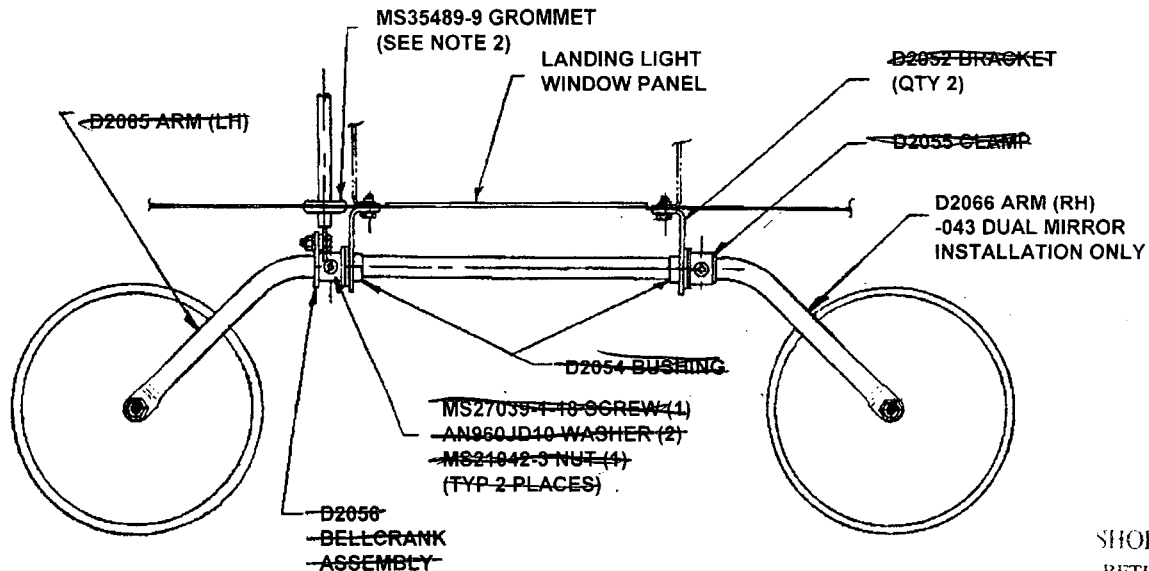


Figure 25.2 - View A: Looking Aft.
(D206-558-043 Mirror Shown)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 75886 M.C.J.

11/11/01

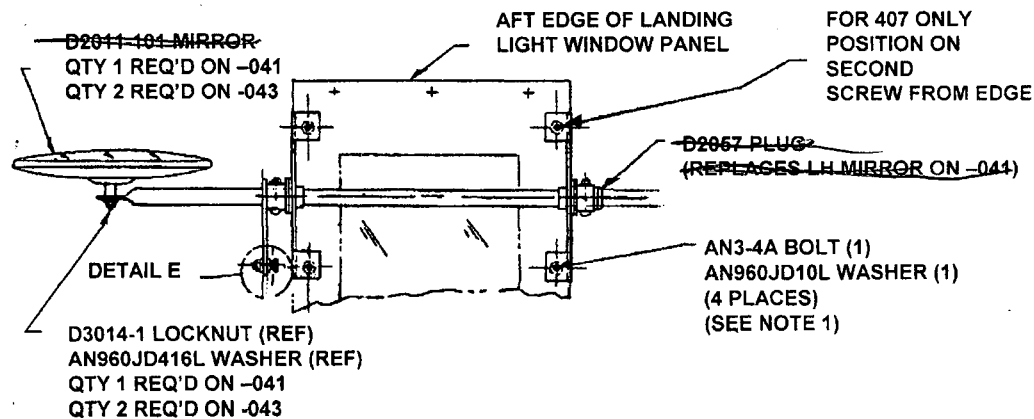


Figure 25.3 - View C: Looking Down on Mirror Installation
(D206-558-041 Mirror Shown)

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25-00-00

FROM THIS POINT FORWARD, CUSTOMERS SHOULD ORDER D407-558-045/-047 IN LIEU OF D206-558-041/-043 WHEN PROCURING SINGLE/DUAL MIRRORS FOR BHT 407 MODELS. AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND 25.3 AND 25.4 OF ICA-D206-558 REV. 0 AS FOLLOWS:

4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER)

25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-558-041	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D206-558-043	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg
D407-558-045	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D407-558-047	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg

5.0 PARTS LIST (D206-558 REV. C OR EARLIER)

25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	1	2	D2011-101	MIRROR ASSEMBLY
2	2	2	2	D2052	BRACKET
1	1	1	1	D2053	BRACKET
2	2	2	2	D2054	BUSHING
1	1	1	1	D2055	CLAMP
1	1	1	1	D2056	BELLCRANK ASSEMBLY
1		1		D2057	PLUG
1		1		D2065	ARM
	1		1	D2066	ARM
1	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-3	CABLE ASSEMBLY
1	2	1	2	D3014-1	* LOCKNUT
1	1	1	1	D3778-1	BRACKET
4	4	4	4	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	1	2	AN960JD416L	* WASHER
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3) /
2	2	2	2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
		1	1	MS35489-67	GROMMET

* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 08.12.04
CERT. NO.: SH92-17
ISSUE NO.: 7

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
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